IN THE CLAIMS:

1. (Currently Amended) A semiconductor inspection method comprising:

extracting data representing adjacent lines of a logical circuit of a semiconductor apparatus represented by layout data, for avoiding a short circuit occurring between such lines;

simultaneously detecting any stuck-at failures in the logical circuit and obtaining input logical values from the logical circuit such that extracted data representing one of the adjacent lines has a logical value "1" while extracted data representing the other of the adjacent lines has a logical value "0";

selecting the setting adjacent input logical values of lines of the logical circuit to logical values of "0" and "1" and input lines of the logical circuit other than the adjacent lines to a logical value of "1" or "0", such so that an output logical value that is expected when the input logical values setting a pair of the logical values "0" and "1" are input to the logical circuit, an expected logical output value is output by the logical circuit when no short circuit exists between the

adjacent lines and an unexpected output logical value is output

when changed by a short circuit of exists between the adjacent

lines; and

monitoring an output of a logical circuit that receives the input logical values, and comparing the monitored output with an output logical value that is expected when the input logical values are input to the logical circuit.

2. (Currently Amended) A semiconductor inspection method comprising:

extracting data representing adjacent lines of a logical circuit of a semiconductor apparatus represented by layout data, a distance between said lines being equal to or less than a threshold;

simultaneously detecting any stuck-at failures in the logical circuit and obtaining input logical values from the logical circuit such that extracted data representing one of the adjacent lines has a logical value "1" while extracted data representing the other pf the adjacent lines has a logical value "0";

selecting thesetting adjacent input logical values of lines of the logical circuit to logical values of "0" and "1" and input lines of the logical circuit other than the adjacent lines to a logical value of "1" or "0", such so that an output logical value that is expected when the input logical values setting a pair of the logical values "0" and "1" are input to the logical circuit, an expected logical output value is output by the logical circuit when no short circuit exists between the adjacent lines and an unexpected output logical value is output when changed by a short circuit of exists between the adjacent lines; and

monitoring an output of a logical circuit that receives the input logical values, and comparing the monitored output with an output logical value that is expected when the input logical values are input to the logical circuit.

3. (Currently Amended) A computer-readable recording medium comprising a program for causing a computer the execute:

extracting data representing adjacent lines of a logical circuit of a semiconductor apparatus represented by layout data,

said adjacent lines having a possibility of a short circuit occurring between such lines;

simultaneously detecting any stuck-at failures in the logical circuit and obtaining input logical values from the logical circuit such that extracted data representing one of the adjacent lines has a logical value "1" while extracted data representing the other of the adjacent lines has a logical value "0";

selecting thesetting adjacent input logical values of lines of the logical circuit to logical values of "0" and "1" and input lines of the logical circuit other than the adjacent lines to a logical value of "1" or "0", such so that an output logical value that is expected when the input logical values setting a pair of the logical values "0" and "1" are input to the logical circuit, an expected logical output value is output by the logical circuit when no short circuit exists between the adjacent lines and an unexpected output logical value is output when changed by a short circuit of exists between the adjacent lines; and

monitoring an output of a logical circuit that receives the input logical values, and comparing the monitored output with an output logical value that is expected when the input logical values are input to the logical circuit.

4. (Currently Amended) A computer-readable recording medium comprising a recorded program for causing a computer to execute:

extracting data representing adjacent lines of a logical circuit of a semiconductor apparatus represented by layout data, a distance between said lines being not greater than a threshold;

simultaneously detecting any stuck-at failures in the logical circuit and obtaining input logical values from the logical circuit such that extracted data representing one of the adjacent lines has a logical value "1" while extracted data representing the other of the adjacent lines has a logical value "0";

selecting the setting adjacent input logical values of lines of the logical circuit to logical values of "0" and "1" and

to a logical value of "1" "0", such so that an output logical value that is expected when the input logical values setting a pair of the logical values "0" and "1" are input to the logical circuit, an expected logical output value is output by the logical circuit when no short circuit exists between the adjacent lines and an unexpected output logical value is output when changed by a short circuit of exists between the adjacent lines; and

monitoring an output of a logical circuit that receives the input logical values, and comparing the monitored output with an output logical value that is expected when the input logical values are input to the logical circuit.